

Hominy Ridge Lake  
Wabash County  
2007 Fish Management Report

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2007

## EXECUTIVE SUMMARY

- Hominy Ridge Lake is an 11-acre impoundment located within the Salamonie River State Forest in Wabash County. Picnic, playground, and restroom facilities, along with the lakes proximity to Marion, Wabash, and Huntington promote high public use of this resource.
- In 1986 120 triploid grass carp were stocked into Hominy Ridge Lake. Additional triploid grass carp were stocked in 1993, 2002, and 2004 at a stocking rate of 5 per acre. A property rule implementing a minimum size limit of 7 in and a bag limit of 15 for bluegills was applied in 2003.
- The general survey of Hominy Ridge Lake was conducted from June 18 to June 19, 2007. Temperature and an oxygen profile were collected at the deepest point using a Hydrolab Quanta®. Submersed aquatic plants were sampled on August 29, 2007 according to the Tier II Aquatic Vegetation Survey Protocol (IDNR 2007).
- Fish collection effort consisted of 0.5 h of pulsed D.C. night electrofishing with two dippers. Two trap nets and two experimental gill nets were set overnight (Figure 1). Total length of all fish was measured to the nearest 0.1 in and weight was measured to the nearest 0.01 lbs.
- Submersed plants were recorded at a maximum depth of 12 ft, in August of 2007. A total of two species were collected. Coontail was most common (frequency = 95%), followed by sago pondweed (frequency = 5%).
- A total of 598 fish, weighing 109.6 lbs was collected during this survey. Bluegills were the most abundant fish collected by number (60%), followed by largemouth bass (17%), and redear sunfish (16%).
- A total of 360 bluegills, ranging in total length from 1.1 to 7.7 in was collected at Hominy Ridge Lake.
- A total of 100 largemouth bass was collected at Hominy Ridge Lake. Total length of bass collected ranged from 3.7 to 15.8 in, and included only two fish over the 14 in minimum size limit.
- A total of 93 redear sunfish, ranging in total length from 2.4 to 7.8 in was collected.
- An overabundance of vegetation continues to limit the potential of the fishery at Hominy Ridge Lake. The dense vegetation is likely limiting the foraging efficiency of largemouth bass on bluegill. This lack of predation is responsible for the slow growth of both species, and is limiting the potential for larger individuals.
- Although few large individuals are present, Hominy Ridge Lake is currently providing angling opportunities for several species. The location of the lake and the nearby facilities make this lake a good spot for family gatherings.

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## INTRODUCTION

Hominy Ridge Lake is an 11-acre impoundment located within the Salamonie River State Forest in Wabash County. Picnic, playground, and restroom facilities, along with the lakes proximity to Marion, Wabash, and Huntington promote high public use of this resource. Maximum depth is 17 ft and average depth is 6 ft. Due to the lakes shallow nature aquatic vegetation is very abundant. The boat ramp is located on the east end of the lake, and only trolling motors are allowed.

The lake was treated with rotenone to remove abundant bullheads and carp in 1981 and was restocked with largemouth bass, bluegill, redear sunfish, and channel catfish. Channel catfish continue to be stocked during alternating years. In 1986 Hominy Ridge Lake was selected as one of eight impoundments for a research project to evaluate the effectiveness of triploid grass carp in controlling aquatic vegetation (Braun 1991). In 1986 120 triploid grass carp were stocked into Hominy Ridge Lake. Additional triploid grass carp were stocked in 1993, 2002, and 2004 at a stocking rate of 5 per acre. A property rule implementing a minimum size limit of 7 in and a bag limit of 15 for bluegills was applied in 2003.

## METHODS

The general survey of Hominy Ridge Lake was conducted from June 18 to June 19, 2007. Temperature and an oxygen profile were collected at the deepest point using a Hydrolab Quanta®. Submersed aquatic plants were sampled on August 29, 2007 according to the Tier II Aquatic Vegetation Survey Protocol (IDNR 2007). A global positioning system device was used to record the location of submersed aquatic vegetation sampling locations.

Fish collection effort consisted of 0.5 h of pulsed D.C. night electrofishing with two dippers. Two trap nets and two experimental gill nets were set overnight (Figure 1). Total length of all fish was measured to the nearest 0.1 in and weight was measured to the nearest 0.01 lbs. Five scale samples per half-inch group were collected from bluegill, largemouth bass, redear sunfish, and black crappie for age determination and back-calculated lengths-at-age. Length frequency distribution for reporting purposes will be grouped in half-inch groups which are defined as X.0 – X.4 and X.5 – X.9. Age length keys were also constructed to determine mean length at age. Proportional stock density (PSD) was calculated for bluegills, largemouth bass, and redear sunfish using electrofishing catch only (Anderson and Neumann 1996).

## RESULTS

On June 18 the water temperature was 79.4°F at the surface and a dissolved oxygen concentration greater than 3.0 ppm was present down to a depth of 8 ft. Submersed plants were recorded at a maximum depth of 12 ft, in August of 2007. A total of two species were collected. Coontail was most common (frequency = 95%), followed by sago pondweed (frequency = 5%). Species that were not collected in 2007, but were present in 2002 include: slender naiad, curly-leaf pondweed, *Chara* sp., southern naiad, American pondweed, and leafy pondweed (Braun 2004). Eurasian watermilfoil is currently not present in Hominy Ridge Lake.

A total of 598 fish, weighing 109.6 lbs was collected during this survey. Bluegills were the most abundant fish collected by number (60%), followed by largemouth bass (17%), and redear sunfish (16%). Largemouth bass were the most abundant collected by weight (41%), followed by bluegill (17%), and common carp (14%). This was the first time common carp were collected since the renovation in 1981 (Table 1).

A total of 360 bluegills, ranging in total length from 1.1 to 7.7 in was collected at Hominy Ridge Lake. The electrofishing, gill net, and trap net catch rates were 352 fish/h, 3 fish/lift, and 90 fish/lift, respectively. The PSD for bluegill was 18, and no preferred size (8 in) bluegills were collected. Bluegills of quality size (6 in or greater) comprised 14% of the sample, while bluegills of this size comprised 13% and 6% of the sample during population estimates in 2001 and 2002, respectively. Growth of bluegills was much slower in 2007 compared to past surveys (Table 2). Based on an age length key and back calculated lengths at age the majority of bluegills reach 6 in between ages 4 - 5.

A total of 100 largemouth bass was collected at Hominy Ridge Lake. The electrofishing, gill net, and trap net catch rates were 180 fish/h, 4 fish/lift, and 1 fish/lift, respectively. Total length of bass collected ranged from 3.7 to 15.8 in, and included only two fish over the 14 in minimum size limit. The PSD for largemouth bass during this survey was 52. Of the largemouth bass collected 2% were greater than or equal to 14 in. Largemouth bass of this size comprised 3% and 4% of the sample during population estimates in 2001 and 2002, respectively. Based on an age length key and back calculated lengths at age the majority of largemouth bass reach 12 in between ages 4 - 5.

A total of 93 redear sunfish, ranging in total length from 2.4 to 7.8 in was collected. The electrofishing, gill net, and trap net catch rates were 30 fish/h, 1 fish/lift, and 39 fish/lift,

respectively. The PSD for redear sunfish was 17, and no preferred size (9 in) redear were collected. Of the redear collected 22% were equal to or greater than 7 in. Redear of this size comprised 14% and 19% of the sample during population estimates in 2001 and 2002, respectively. Based on an age length key and back calculated lengths at age the majority of redear sunfish reach 7 in between ages 4 - 5.

A total of 35 black crappie, ranging in total length from 7.1 to 13.3 in was collected. The electrofishing, gill net, and trap net catch rates were 2 fish/h, 2 fish/lift, and 15 fish/lift, respectively. Based on an age length key and back calculated lengths at age the majority of black crappie reach 8 in by age 3.

A total of 6 channel catfish, ranging in total length from 11.5 to 15.5 in was collected. The electrofishing, gill net, and trap net catch rates were 4 fish/h, 2 fish/lift, and 1 fish/lift, respectively.

## DISCUSSION

An overabundance of vegetation continues to limit the potential of the fishery at Hominy Ridge Lake. The dense vegetation is likely limiting the foraging efficiency of largemouth bass on bluegill. This lack of predation is responsible for the slow growth of both species, and is limiting the potential for larger individuals. The current triploid grass carp population appears to be selectively feeding on pondweeds and naiads, and have been ineffective at reducing the overabundance of coontail at Hominy Ridge Lake. Good control of vegetation by grass carp was documented at Hominy Ridge from 1989 through the early 1990's (Braun 1991, Braun 1992, Braun 1994). Over this time period bluegill growth rates appeared to respond positively from this reduction (Table 2).

The harvest restrictions implemented in 2003 have had no impact on the bluegill population, and the fishery continues to be dominated by bluegill less than or equal to 6 in. Bluegill growth continues to be slow and has decreased since the regulation change. However due to the overabundance of vegetation it is difficult to determine if the harvest restrictions are responsible for this decline. Unless growth of bluegill improves this regulation is not likely to improve the quality of the bluegill fishery.

Although few large individuals are present, Hominy Ridge Lake is currently providing angling opportunities for several species. The location of the lake and the nearby facilities make this lake a good spot for family gatherings.

## RECOMMENDATIONS

- A reduction in the abundance of submersed vegetation is needed at Hominy Ridge Lake. Triploid grass carp are currently present in the lake, but the population is too low to substantially reduce the amount of aquatic vegetation. A cooperative decision by Fisheries District 4 and Salamonie Reservoir staff will be made to either stock triploid grass carp or chemically treat Hominy Ridge Lake.
- Channel catfish should continue to be stocked every other year.

## LITERATURE CITED

- Anderson, R. O., and R. M. Neumann. 1996. Length, weight, and associated structural indices. Pages 447-481 *in* B. R. Murphy and D. W. Willis, editors. Fisheries techniques, 2<sup>nd</sup> edition. American Fisheries Society, Bethesda, Maryland.
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Date: March 26, 2008

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Date: March 27, 2008

Approved by: Stuart Shipman, Regional Supervisor  
Date: April 8, 2008



Figure 1. Sampling gear locations at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Table 1. Abundance of fish collected during general surveys conducted at Hominy Ridge Lake from 1983 through 2007.

Species	1983	1984	1987	1988	1989	1992	1994	1998	2007
Bluegill	39	207	323	287	365	293	249	563	360
Largemouth bass	358	126	270	201	298	154	123	128	100
Redear sunfish	73	58	125	51	199	52	52	83	93
Black crappie				2	8				35
Channel catfish	1	28	47	28	30	34	26	19	6
Black bullhead	1				1			11	1
Brown bullhead			1				2		1
Common carp									1
Hybrid sunfish						1			1
Grass carp				2	3	2		1	
Green sunfish		6							
Spotfin shiner								1	
Walleye				1	1				
White bass		1							
White crappie			1	6		2	2	10	
White sucker			1						
Total	472	425	766	578	905	538	454	816	598
Electrofishing Effort (h)	0.67	0.71	0.67	0.73	0.78	0.75	0.86	0.98	0.5
# of Gill Nets Lifts	0	6	6	6	6	6	3	6	2
# of Trap Net Lifts	3	6	6	6	6	6	3	6	2

Table 2. Back calculated lengths at age of bluegills collected at Hominy Ridge Lake from 1988 to 2007.

Year	N	Age - 2	N	Age - 3	N	Age - 4	N	Age - 5
2007	11	2.7	10	3.3	13	4.9	16	5.6
2002	22	2.2	50	3.8	25	5.9	15	6.6
2001	32	2.4	28	4.1	28	5.7	20	6.2
1998	25	2.2	30	3.4	37	5.2	17	6.6
1994	16	2.8	37	4.7	23	6.5	7	6.9
1992	32	3.5	23	5.0	21	6.1	6	7.0
1990	16	2.2	27	3.5	24	5.2	9	6.0
1989	18	2.7	36	4.1	17	5.7	10	6.5
1988	21	2.9	15	4.0	18	5.0	13	5.7

## Appendix

**LAKE SURVEY REPORT**

Type of Survey
<input type="checkbox"/> Initial Survey <input checked="" type="checkbox"/> Re-Survey

Lake Name	County	Date of survey (Month, day, year)
Hominy Ridge Lake	Wabash	6/18/07-6/19/07
Biologist's name	Date of survey (Month, day, year)	
Rod A Edgell		

LOCATION		
Quadrangle Name	Range	Section
Lagro	7E	12
Township Name	Nearest Town	
27N	Lagro	

ACCESSIBILITY					
State owned public access site		Privately owned public access site		Other access site	
One improved ramp					
Surface acres	Maximum depth	Average depth	Acre feet	Water level	Extreme fluctuations
11	17	6	66	752	1 ft
Location of benchmark					
None					

INLETS		
Name	Location	Origin
Unnamed ditch	Southwest	Runoff

OUTLETS																
Name	Location															
Unnamed ditch	North to Salamonie River															
Water level control																
Earthen dam with concrete drop box																
POOL	ELEVATION (Feet MSL)	ACRES														
TOP OF DAM																
TOP OF FLOOD CONTROL POOL																
TOP OF CONSERVATION POOL																
TOP OF MINIMUM POOL																
STREAMBED																
<table border="1"><tr><th colspan="2">Bottom type</th></tr><tr><td><input type="checkbox"/></td><td>Boulder</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Gravel</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Sand</td></tr><tr><td><input type="checkbox"/></td><td>Muck</td></tr><tr><td><input checked="" type="checkbox"/></td><td>Clay</td></tr><tr><td><input type="checkbox"/></td><td>Marl</td></tr></table>			Bottom type		<input type="checkbox"/>	Boulder	<input checked="" type="checkbox"/>	Gravel	<input checked="" type="checkbox"/>	Sand	<input type="checkbox"/>	Muck	<input checked="" type="checkbox"/>	Clay	<input type="checkbox"/>	Marl
Bottom type																
<input type="checkbox"/>	Boulder															
<input checked="" type="checkbox"/>	Gravel															
<input checked="" type="checkbox"/>	Sand															
<input type="checkbox"/>	Muck															
<input checked="" type="checkbox"/>	Clay															
<input type="checkbox"/>	Marl															

Watershed use
Salamonie State Forest
Development of shoreline
Undeveloped
Previous surveys and investigations
General Survey (IDNR) 1962, 1965, 1966, 1968, 1972, 1975, 1978, 1979, 1980, 1982, 1983, 1984, 1992, 1994, and 1998. LMB, BLG, RES population estimates (IDNR) 2001 and 2002. Voluntary ice angler survey (IDNR) 1976. Angler creel survey (IDNR) 2001 and 2002. Renovated and restocked (IDNR) 1962 and 1981.

SAMPLING EFFORT					
ELECTROFISHING	Day hours		Night hours		Total hours
			0.5		0.5
TRAP NETS	Number of traps		Number of Lifts		Total effort
	2		1		2
GILL NETS	Number of nets		Number of Lifts		Total effort
	2		1		2
ROTENONE	Gallons	ppm	Acre Feet Treated	SHORELINE SEINING	Number of 100 Foot Seine Hauls

PHYSICAL AND CHEMICAL CHARACTERISTICS			
Color	Turbidity		Air temperature:
Green	7 Feet	5 Inches (SECCHI DISK)	F
Water chemistry GPS coordinates: 62 N 40.80858171 W -85.68409511			

WATER QUALITY PARAMETERS																
DEPTH (Feet)	Degrees ( F)	D.O.	SpC	pH	TDS	D.O. %	Turb.	DEPTH	Degrees ( F)	D.O.	SpC	pH	TDS	D.O. %	Turb.	
SURFACE	79.48	8.05	0.278	8.39	0.2	103	34.6	52								
2	79.5	8.04	0.278	8.37	0.2	102.9	32.8	54								
4	79.44	8.03	0.278	8.35	0.2	102.7	31.9	56								
6	79.45	12.06	0.279	8.73	0.2	148.2	48.9	58								
8	68.23	11.03	0.295	8.34	0.2	125.1	61.4	60								
10	61.38	2.73	0.311	7.08	0.2	28.7	50.7	62								
12	54.75	1.6	0.317	6.96	0.2	15.4	66.8	64								
14	49.6	0.79	0.362	6.76	0.2	7.3	78.9	66								
14.4	49.41	0.55	0.367	6.78	0.2	5	5999	68								
18								70								
20								72								
22								74								
24								76								
26								78								
28								80								
30								82								
32								84								
34								86								
36								88								
38								90								
40								92								
42								94								
44								96								
46								98								
48								100								
50																
COMMENTS																

### Occurrence and Abundance of Submersed Aquatic Plants - Overall

Lake: Hominy Ridge	Secchi(ft): 9.0	SE Mean species / site: 0.07
Date: 8/29/2007	Littoral sites with plants: 19	Mean natives / site: 1.00
Littoral Depth (ft): 12.0	Number of species: 2	SE Mean natives / site: 0.07
Littoral Sites: 19	Maximum species / site: 2	Species diversity: 0.10
Total Sites: 20	Mean species / site: 1.00	Native diversity: 0.10

Species	Frequency of Occurrence	Score Frequency				Dominance
		0	1	3	5	
Coontail	95.0	5.0	15.0	5.0	75.0	81.0
Sago Pondweed	5.0	95.0	5.0	0.0	0.0	1.0
Filamentous Algae	45.0					

Other species noted:

### Occurrence and Abundance of Submersed Aquatic Plants - 0 to 5 ft.

Lake: Hominy Ridge	Secchi(ft): 9.0	SE Mean species / site: 0.10
Date: 8/29/2007	Littoral sites with plants: 10	Mean natives / site: 1.10
Littoral Depth (ft): 12.0	Number of species: 2	SE Mean natives / site: 0.10
Littoral Sites: 10	Maximum species / site: 2	Species diversity: 0.17
Total Sites: 10	Mean species / site: 1.10	Native diversity: 0.17

Species	Frequency of Occurrence	Score Frequency				Dominance
		0	1	3	5	
Coontail	100.0	0.0	20.0	0.0	80.0	84.0
Sago Pondweed	10.0	90.0	10.0	0.0	0.0	2.0
Filamentous Algae	70.0					

Other species noted:

### Occurrence and Abundance of Submersed Aquatic Plants - 5 to 10 ft.

Lake: Hominy Ridge	Secchi(ft): 9.0	SE Mean species / site: 0.00
Date: 8/29/2007	Littoral sites with plants: 7	Mean natives / site: 1.00
Littoral Depth (ft): 12.0	Number of species: 1	SE Mean natives / site: 0.00
Littoral Sites: 7	Maximum species / site: 1	Species diversity: 0.00
Total Sites: 7	Mean species / site: 1.00	Native diversity: 0.00

Species	Frequency of Occurrence	Score Frequency				Dominance
		0	1	3	5	
Coontail	100.0	0.0	0.0	0.0	100.0	100.0

Filamentous Algae 28.6

Other species noted:

### Occurrence and Abundance of Submersed Aquatic Plants - 10 to 15 ft.

Lake: Hominy Ridge	Secchi(ft): 9.0	SE Mean species / site: 0.33
Date: 8/29/2007	Littoral sites with plants: 2	Mean natives / site: 0.67
Littoral Depth (ft): 12.0	Number of species: 1	SE Mean natives / site: 0.33
Littoral Sites: 2	Maximum species / site: 1	Species diversity: 0.00
Total Sites: 3	Mean species / site: 0.67	Native diversity: 0.00

Species	Frequency of Occurrence	Score Frequency				Dominance
		0	1	3	5	
Coontail	66.7	33.3	33.3	33.3	0.0	26.7

Filamentous Algae 0.0

Other species noted:



SPECIES AND RELATIVE ABUNDANCE OF FISHES COLLECTED BY NUMBER AND WEIGHT					
*COMMON NAME OF FISH	NUMBER	PERCENT	LENGTH RANGE (inches)	WEIGHT (pounds)	PERCENT
Bluegill	360	60.2	1.1-7.7	18.27	16.7
Largemouth bass	100	16.7	3.7-15.8	44.69	40.8
Redear sunfish	93	15.6	2.4-7.8	12.65	11.5
Black crappie	35	5.9	7.1-13.3	12.04	11.0
Channel catfish	6	1.0	11.5-15.5	4.62	4.2
Common carp	1	0.2	30.6	15.25	13.9
Black bullhead	1	0.2	12.4	1.27	1.2
Brown bullhead	1	0.2	10.5	0.57	0.5
Hybrid sunfish	1	0.2	7.0	0.27	0.2
Total (9 Species)	598	100.0		109.63	100.0

\*Common names of fishes recognized by the American Fisheries Society.

<b>Lake:</b>	Hominy Ridge			<b>TN</b>	<b>GN</b>	<b>EF</b>
<b>Date:</b>	6/18/2007	to	6/19/2007	Total #	179	5
<b>Species:</b>	Bluegill			Effort	2	2
<b>Total number:</b>	360			CPUE	90	3
<b>Total weight:</b>	18.27					352
<b>Length range:</b>	1.1	to	7.7			

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	3	115	5	73	193	-
Quality	6	37	2	13	52	18
Preferred	8	0	0	0	0	
Memorable	10	0	0	0	0	
Trophy	12	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0	7	0.00	17.5			34.0		
1.5	21	0.00	18.0			34.5		
2.0	52	0.01	18.5			35.0		
2.5	87	0.01	19.0			35.5		
3.0	41	0.02	19.5			36.0		
3.5	32	0.03	20.0			36.5		
4.0	11	0.04	20.5			37.0		
4.5	8	0.06	21.0			37.5		
5.0	22	0.08	21.5			38.0		
5.5	27	0.12	22.0			38.5		
6.0	22	0.15	22.5			39.0		
6.5	22	0.20	23.0			39.5		
7.0	6	0.23	23.5			40.0		
7.5	2	0.15	24.0			40.5		
8.0			24.5			41.0		
8.5			25.0			41.5		
9.0			25.5			42.0		
9.5			26.0			42.5		
10.0			26.5			43.0		
10.5			27.0			43.5		
11.0			27.5			44.0		
11.5			28.0			44.5		
12.0			28.5			45.0		
12.5			29.0			45.5		
13.0			29.5			46.0		
13.5			30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

<b>Lake:</b>	Hominy Ridge			<b>TN</b>	<b>GN</b>	<b>EF</b>
<b>Date:</b>	6/18/2007	to	6/19/2007	Total #	2	8
<b>Species:</b>	Largemouth bass			Effort	2	2
<b>Total number:</b>	100			CPUE	1	4
<b>Total weight:</b>	44.69					180
<b>Length range:</b>	3.7	to	15.8			

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	8	0	6	46	52	-
Quality	12	0	2	24	26	52
Preferred	15	0	0	2	2	4
Memorable	20	0	0	0	0	
Trophy	25	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0			18.5			35.0		
2.5			19.0			35.5		
3.0			19.5			36.0		
3.5	2	0.03	20.0			36.5		
4.0	6	0.03	20.5			37.0		
4.5	3	0.04	21.0			37.5		
5.0	2	0.06	21.5			38.0		
5.5	5	0.08	22.0			38.5		
6.0	3	0.10	22.5			39.0		
6.5	6	0.13	23.0			39.5		
7.0	13	0.16	23.5			40.0		
7.5	8	0.20	24.0			40.5		
8.0	4	0.26	24.5			41.0		
8.5	2	0.15	25.0			41.5		
9.0	6	0.34	25.5			42.0		
9.5	2	0.46	26.0			42.5		
10.0	3	0.48	26.5			43.0		
10.5			27.0			43.5		
11.0	6	0.64	27.5			44.0		
11.5	3	0.73	28.0			44.5		
12.0	11	0.81	28.5			45.0		
12.5	5	0.95	29.0			45.5		
13.0	1	0.99	29.5			46.0		
13.5	7	1.22	30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5	2	2.08	32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

<b>Lake:</b>	Hominy Ridge			<b>TN</b>	<b>GN</b>	<b>EF</b>
<b>Date:</b>	6/18/2007	to	6/19/2007	Total #	77	15
<b>Species:</b>	Redear sunfish			Effort	2	0.5
<b>Total number:</b>	93			CPUE	39	30
<b>Total weight:</b>	12.65					
<b>Length range:</b>	2.4	to	8.5			

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	4	67	1	12	80	-
Quality	7	18	0	2	20	17
Preferred	9	0	0	0	0	
Memorable	11	0	0	0	0	
Trophy	13	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0	1	0.01	18.5			35.0		
2.5	8	0.01	19.0			35.5		
3.0	2	0.01	19.5			36.0		
3.5	2	0.04	20.0			36.5		
4.0	3	0.05	20.5			37.0		
4.5	7	0.06	21.0			37.5		
5.0	10	0.09	21.5			38.0		
5.5	11	0.12	22.0			38.5		
6.0	14	0.16	22.5			39.0		
6.5	15	0.20	23.0			39.5		
7.0	14	0.24	23.5			40.0		
7.5	4	0.30	24.0			40.5		
8.0	1	0.00	24.5			41.0		
8.5	1	0.00	25.0			41.5		
9.0			25.5			42.0		
9.5			26.0			42.5		
10.0			26.5			43.0		
10.5			27.0			43.5		
11.0			27.5			44.0		
11.5			28.0			44.5		
12.0			28.5			45.0		
12.5			29.0			45.5		
13.0			29.5			46.0		
13.5			30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

<b>Lake:</b>	Hominy Ridge			<b>TN</b>	<b>GN</b>	<b>EF</b>
<b>Date:</b>	6/18/2007	to	6/19/2007	Total #	30	4
<b>Species:</b>	Black crappie			Effort	2	2
<b>Total number:</b>	35			CPUE	15	2
<b>Total weight:</b>	12.04					
<b>Length range:</b>	7.1	to	13.3			

Group	TL (in)	TN	GN	EF	TOTAL	RSD
Stock	5	30	4	1	35	-
Quality	8	23	3	1	27	100
Preferred	10	7	1	1	9	100
Memorable	12	1	0	0	1	
Trophy	15	0	0	0	0	

Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)	Length group (in)	#	Mean weight (lbs)
1.0			17.5			34.0		
1.5			18.0			34.5		
2.0			18.5			35.0		
2.5			19.0			35.5		
3.0			19.5			36.0		
3.5			20.0			36.5		
4.0			20.5			37.0		
4.5			21.0			37.5		
5.0			21.5			38.0		
5.5			22.0			38.5		
6.0			22.5			39.0		
6.5			23.0			39.5		
7.0	4	0.20	23.5			40.0		
7.5	4	0.21	24.0			40.5		
8.0	3	0.27	24.5			41.0		
8.5	8	0.30	25.0			41.5		
9.0	4	0.35	25.5			42.0		
9.5	3	0.38	26.0			42.5		
10.0	6	0.48	26.5			43.0		
10.5	1	0.63	27.0			43.5		
11.0	1	0.00	27.5			44.0		
11.5			28.0			44.5		
12.0			28.5			45.0		
12.5			29.0			45.5		
13.0	1	1.14	29.5			46.0		
13.5			30.0			46.5		
14.0			30.5			47.0		
14.5			31.0			47.5		
15.0			31.5			48.0		
15.5			32.0			48.5		
16.0			32.5			49.0		
16.5			33.0			49.5		
17.0			33.5			50.0		

Back-calculated lengths-at-age for bluegills captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Year Class	# Aged	Age						
		I	II	III	IV	V	VI	VII
2005	11	1.6	2.7					
	SD	0.2	0.5					
2004	10	1.5	2.3	3.3				
	SD	0.2	0.2	0.5				
2003	13	1.5	2.5	3.5	4.9			
	SD	0.2	0.4	0.6	0.7			
2002	16	1.4	2.1	3.3	4.5	5.6		
	SD	0.2	0.4	0.7	0.8	0.9		
2001	3	1.4	2.3	3.5	5.5	6.8	7.2	
	SD	0.1	0.3	0.1	0.2	0.2	0.4	
2000	1	1.3	1.8	2.4	3.8	5.0	5.8	6.1
	SD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean*		1.5	2.4	3.4	5.0	6.2	7.2	
SD		0.2	0.4	0.5	0.6	0.5	0.4	

\*Does not include age groups with less than three samples.

Age-length key for bluegills captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age						
			1	2	3	4	5	6	7
1.0	7								
1.5	21								
2.0	52								
2.5	87	3(2), 1(3)		65	22				
3.0	41	2(2), 1(3)		27	14				
3.5	32	4(2), 2(3)		21	11				
4.0	11	2(2), 3(3)		4	7				
4.5	8	3(3), 1(4)			6	2			
5.0	22	7(4), 3(5)				15	7		
5.5	27	3(4), 1(5)				20	7		
6.0	22	1(4), 4(5), 1(7)				4	14		4
6.5	22	1(4), 6(5)				3	19		
7.0	6	2(5), 1(6)					4	2	
7.5	2	2(6)						2	
Mean TL				3.1	3.4	5.6	6.3	7.5	6.3
SE				0.04	0.09	0.07	0.08	0.14	0.00

Back-calculated lengths-at-age for largemouth bass captured at Hominy Ridge Lake,  
Wabash County, Indiana in June 2007.

Year Class	# Aged	Age						
		I	II	III	IV	V	VI	VII
2006	9	3.5						
	SD	0.3						
2005	23	3.4	5.6					
	SD	0.5	0.8					
2004	16	2.6	5.7	8.2				
	SD	0.6	0.7	1.1				
2003	15	3.6	6.6	9.0	11.1			
	SD	0.5	0.4	0.6	0.7			
2002	9	3.4	5.9	8.5	10.7	12.0		
	SD	0.8	1.3	1.2	1.1	1.0		
2001	0	0.0	0.0	0.0	0.0	0.0	0.0	
	SD	0.0	0.0	0.0	0.0	0.0	0.0	
2000	1	3.3	7.2	10.0	12.2	13.2	14.5	15.2
	SD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean*		3.3	5.9	8.6	10.9	12.0	0.0	0.0
SD		0.6	0.8	1.0	0.9	1.0	0.0	0.0

\*Does not include age groups with less than three samples.

Age-length key for largemouth bass captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age						
			1	2	3	4	5	6	7
3.5	2	1(1)	2						
4.0	6	6(1)	6						
4.5	3	2(1), 1(2)	2	1					
5.0	2	2(2)		2					
5.5	5	5(2)		5					
6.0	3	3(2)		3					
6.5	6	4(2), 1(3)		5	1				
7.0	13	4(2)		13					
7.5	8	4(2)		8					
8.0	4	3(3)			4				
8.5	2	1(3)			2				
9.0	6	5(3)			6				
9.5	2	2(3)			2				
10.0	3	3(3)			3				
10.5									
11.0	6	1(3), 4(4)			1	5			
11.5	3	2(4)				3			
12.0	11	4(4), 2(5)				7	4		
12.5	5	3(4), 2(5)				3	2		
13.0	1	1(4)				1			
13.5	7	1(4), 5(5)				1	6		
14.0									
14.5									
15.0									
15.5	2	1(7)							2
Mean TL			4.3	6.8	9.2	12.1	13.1		15.8
SE			0.11	0.14	0.24	0.16	0.21		0.00



Back-calculated lengths-at-age for redear sunfish captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Year Class	# Aged	Age						
		I	II	III	IV	V	VI	VII
2005	9	1.5	2.4					
	SD	0.2	0.4					
2004	25	1.7	3.2	4.7				
	SD	0.2	0.4	0.8				
2003	4	1.7	3.1	5.1	6.2			
	SD	0.3	0.7	0.3	0.4			
2002	10	1.6	2.7	4.7	6.2	6.9		
	SD	0.2	0.3	0.4	0.6	0.5		
2001	0	0.0	0.0	0.0	0.0	0.0	0.0	
	SD	0.0	0.0	0.0	0.0	0.0	0.0	
2000	1	1.3	2.9	3.8	6.6	7.6	8.0	8.3
	SD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean*		1.6	2.9	4.8	6.2	6.9		
SD		0.2	0.5	0.5	0.5	0.5		

\*Does not include age groups with less than three samples.

Age-length key for redear sunfish captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age						
			1	2	3	4	5	6	7
2.0	1	1(2)		1					
2.5	8	6(2)		8					
3.0	2	1(2)		2					
3.5	2	1(2)		2					
4.0	3	3(3)			3				
4.5	7	5(3)			7				
5.0	10	5(3)			10				
5.5	11	6(3)			11				
6.0	14	5(3), 1(4)			12	2			
6.5	15	1(3), 2(4), 2(5)			3	6	6		
7.0	14	1(4), 4(5)				3	11		
7.5	4	3(5)					4		
8.0	1	1(5)					1		
8.5	1	1(7)							1
Mean TL				2.9	5.6	6.8	7.3		8.8
SE				0.12	0.10	0.11	0.09		

Back-calculated lengths-at-age for black crappie captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Year Class	# Aged	Age				
		I	II	III	IV	V
2005	7	3.3	6.4			
	SD	0.4	0.5			
2004	20	3.2	6.1	8.3		
	SD	0.5	0.8	0.7		
2003	5	3.2	6.2	8.5	9.7	
	SD	0.2	1.2	1.0	0.3	
2002	2	2.3	5.7	8.3	10.2	11.7
	SD	0.1	2.2	0.7	0.4	0.9
Mean*		3.2	6.2	8.4	9.7	0.0
SD		0.4	0.8	0.9	0.3	0.0

\*Does not include age groups with less than three samples.

Age-length key for black crappie captured at Hominy Ridge Lake, Wabash County, Indiana in June 2007.

Length Group	# in sample	# (age) in subsample	Age				
			1	2	3	4	5
7.0	4	3(2), 1(3)		3	1		
7.5	4	4(2)		4			
8.0	3	3(3)			3		
8.5	8	8(3)			8		
9.0	4	4(3)			4		
9.5	3	1(3), 2(4)			1	2	
10.0	6	2(3), 3(4)			2	4	
10.5	1	1(3)			1		
11.0	1	1(5)					1
11.5							
12.0							
12.5							
13.0	1	1(5)					1
Mean TL				7.5	9.0	10.1	12.3
SE				0.10	0.18	0.11	1.00

Locations of gill nets, trap nets, and electrofishing transects  
on Hominy Ridge Lake, 2007.

Gill Nets				
1	N	40.80841541	W	-85.68630525
2	N	40.80751419	W	-85.68404146
Trap Nets				
1	N	40.80816329	W	-85.68701872
2	N	40.80735326	W	-85.68353721
Electrofishing				
1	N	40.8089143	W	-85.68407365
	N	40.80836713	W	-85.68658956
2	N	40.80795407	W	-85.68439015
	N	40.807423	W	-85.68359085